

SEQUENCE LISTING

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						gcg Ala										530
						gcc Ala										578
						gca Ala										626
						gtg Val 130										674
						ctc Leu										722
						aaa Lys								et A		769
						gcc Ala										817
						cat His										865
atc Ile	ctg Leu	ctc Leu 205	gaa Glu	gcg Ala	ggc Gly	ccg Pro	cgc Arg 210	atg Met	ccg Pro	cgc Arg	tgg Trp	gaa Glu 215	atc Ile	gtc Val	gag Glu	913
cgc Arg	ttc Phe 220	cgc Arg	aat Asn	cag Gln	ccc Pro	gac Asp 225	aag Lys	atg Met	gac Asp	ttc Phe	atg Met 230	gcg Ala	ccg Pro	tac Tyr	ccg Pro	961
						cat His										1009
						cac His										1057
						cac His										1105

ccg aac ga Pro Asn As 28	sp Phe Lys				- , ,	1153
ccg atc ca Pro Ile Gl 300						1201
gag ctc go Glu Leu Gl 315				Asp Leu		1249
cgc aag ca Arg Lys Gl		Pro Met			, ,	1297
cag acc at Gln Thr Il	-				_	1345
gtg acc ga Val Thr Gl 36	lu Pro Val					1393
act tgt tg Thr Cys Cy 380						1441
atg tac aa Met Tyr As 395				Glu Arg		1489
aag ctg at Lys Leu Il		Ala Val			J	1537
aag cgc at Lys Arg I]						1585
cgc gtc ga Arg Val Gl	lu Gly Lys		 		,	1633
ccg aag at Pro Lys Il 460						l·681
gcg aac aq Ala Asn Se 475				Met Asp	J 5 -	1729
acc ggc gt Thr Gly Va		Tyr Ala				1777

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ccg cag g Pro Gln G				Ile					1825
gcg acc g Ala Thr G			Lys :						1873
gac cag g Asp Gln G 540									1921
gac gag c Asp Glu I 555									1969
ttc gac t Phe Asp C									2017
ccg agc a Pro Ser I				Ala					2065
acg tat g Thr Tyr A			Tyr '						2113
gag gtc t Glu Val T 620									2161
ttc aac g Phe Asn A 635									2209
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ttc gac c Phe Asp H									2305
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<212> PRT

<213> Burkhorderia cepacia

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55

Leu Thr Gly Lys Lys Gly Leu Ser Arg Val Ile Gly Glu Arg Leu Leu 75 70

Gln Ala Leu Gln Lys Gly Ser Phe Lys Thr Ala Asp Ser Leu Pro Gln 90 85

Leu Ala Gly Ala Leu Ala Ser Gly Ser Leu Thr Pro Glu Gln Glu Ser 100 105 110

Leu Ala Leu Thr Ile Leu Glu Ala Trp Tyr Leu Gly Ile Val Asp Asn 125 115 120

Val Val Ile Thr Tyr Glu Glu Ala Leu Met Phe Gly Val Val Ser Asp 135 140

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Asp Lys Pro Ile Glu Arg Gln Ala

165

<210> 3

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<212> PRT

<213> Burkhorderia cepacia

<400> 3

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Val Glu Arg Phe Arg Asn Gln Pro Asp Lys Met Asp Phe Met Ala Pro 55

Tyr Pro Ser Ser Pro Trp Ala Pro His Pro Glu Tyr Gly Pro Pro Asn 70 75

Asp Tyr Leu Ile Leu Lys Gly Glu His Lys Phe Asn Ser Gln Tyr Ile 90

Arg Ala Val Gly Gly Thr Thr Trp His Trp Ala Ala Ser Ala Trp Arg 105 110 100

Phe Ile Pro Asn Asp Phe Lys Met Lys Ser Val Tyr Gly Val Gly Arg 120

Asp Trp Pro Ile Gln Tyr Asp Asp Leu Glu Pro Tyr Tyr Gln Arg Ala



Glu Glu Glu Leu Gly Val Trp Gly Pro Gly Pro Glu Glu Asp Leu Tyr Ser Pro Arg Lys Gln Pro Tyr Pro Met Pro Pro Leu Pro Leu Ser Phe Asn Glu Gln Thr Ile Lys Thr Ala Leu Asn Asn Tyr Asp Pro Lys Phe His Val Val Thr Glu Pro Val Ala Arg Asn Ser Arg Pro Tyr Asp Gly Arg Pro Thr Cys Cys Gly Asn Asn Cys Met Pro Ile Cys Pro Ile Gly Ala Met Tyr Asn Gly Ile Val His Val Glu Lys Ala Glu Arg Ala Gly Ala Lys Leu Ile Glu Asn Ala Val Val Tyr Lys Leu Glu Thr Gly Pro Asp Lys Arg Ile Val Ala Ala Leu Tyr Lys Asp Lys Thr Gly Ala Glu His Arg Val Glu Gly Lys Tyr Phe Val Leu Ala Ala Asn Gly Ile Glu Thr Pro Lys Ile Leu Leu Met Ser Ala Asn Arg Asp Phe Pro Asn Gly Val Ala Asn Ser Ser Asp Met Val Gly Arg Asn Leu Met Asp His Pro Gly Thr Gly Val Ser Phe Tyr Ala Ser Glu Lys Leu Trp Pro Gly Arg Gly Pro Gln Glu Met Thr Ser Leu Ile Gly Phe Arg Asp Gly Pro Phe Arg Ala Thr Glu Ala Ala Lys Lys Ile His Leu Ser Asn Leu Ser Arg Ile Asp Gln Glu Thr Gln Lys Ile Phe Lys Ala Gly Lys Leu Met Lys Pro Asp Glu Leu Asp Ala Gln Ile Arg Asp Arg Ser Ala Arg Tyr Val Gln Phe Asp Cys Phe His Glu Ile Leu Pro Gln Pro Glu Asn Arg Ile Val Pro Ser Lys Thr Ala Thr Asp Ala Ile Gly Ile Pro Arg Pro Glu Ile Thr Tyr Ala Ile Asp Asp Tyr Val Lys Arg Gly Ala Ala His Thr Arg Glu Val Tyr Ala Thr Ala Ala Lys Val Leu Gly Gly Thr Asp Val Val Phe Asn Asp Glu Phe Ala Pro Asn Asn His Ile Thr Gly Ser Thr Ile Met Gly Ala Asp Ala Arg Asp Ser Val Val Asp Lys Asp Cys Arg Thr Phe Asp His Pro Asn Leu Phe Ile Ser Ser Ser Ala Thr Met Pro Thr Val Gly Thr Val Asn Val Thr Leu Thr Ile Ala Ala Leu Ala Leu Arg Met Ser Asp Thr Leu Lys Lys Glu Val

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<212> PRT

<213> Burkhorderia cepacia

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<213 <213	0> 6 1> 28 2> Di 3> Ai	ΝA	icia	l Sed	quenc	ce										
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<400 gaga		:tt (ccgc	acggt	c aç	gacti	ccc									28
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Val Arg Lys Ser Thr Leu Thr Phe Leu Leu Ala Gly Cys

ggtgaacgtg acgctgacga tcgcggcgct cgcgctgcgg atgtcggaca cgctgaagaa 660 qqaaqtctqa cc qtg cqq aaa tct act ctc acc ttc ctc gcc ggc tgc 711

U).

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					gaa Glu 35											807
					ggc Gly											855
					ggc Gly											903
					ggc Gly											951
					tcg Ser											999
					gcg Ala 115											1047
					cac His											1095
					gcg Ala											1143
					ctg Leu											1191
_	_	-			aac Asn	_		-				_				1239
					cac His 195											1287
					ggc Gly											1335
					aac Asn											1383
ggc	tgg	acg	cag	cag	cag	ctc	gtc	cag	tac	ctg	cgc	acc	ggc	agc	gtg	1431





Gly Tr	p Thr 240		Gln	Gln	Leu	Val 245	Gln	Tyr	Leu	Arg	Thr 250	Gly	Ser	Val	
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agc tt Ser Ph 270															1527
gcg at Ala Il															1575
tcg tc Ser Se															1623
gcg ct Ala Le		Ser													1671
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tac cc Tyr Pr 350															1767
aac ct Asn Le															1815
gag ga Glu As															1863
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gcg aa Ala Ly 41	s Val											aac	gcgg	cac	1960
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<213> Burkhorderia cepacia

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Thr Glu Gln Asp Val Ala Lys Leu Arg 420 425

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atc tac acg agc aac atc acg ccc gat ccc gat acg ggc gac tgc atg Ile Tyr Thr Ser Asn Ile Thr Pro Asp Pro Asp Thr Gly Asp Cys Met 50 55 60	312
gcc tgc cac acc gtg aag ggc ggc aag ccg tac gcg ggc ggc ctt ggc Ala Cys His Thr Val Lys Gly Gly Lys Pro Tyr Ala Gly Gly Leu Gly 65 70 75 80	360





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	tcg Ser													456
	gcg Ala 115													504
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	gcg Ala	_		-	-	-		_	_	_				600
	ctg Leu													648
	aat Asn													696
	cac His 195													744
	ggc Gly													792
	aac Asn													840
	cag Gln													888
	gcg Ala													936
	acc Thr 275													984
	gcc Ala													1032



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														ctc Leu		1224
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														gcc Ala		1320
														aag Lys 415		1368
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Ser	Tyr	Ala 115		Ile	Lys	Asp	Asp 120		Val	Arg	Ala	Leu 125		Ala	Tyr	
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Ile Pro Ala Leu Leu Ser Met Arg Trp Pro Leu Lys Ile Trp Asn Trp
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Leu Phe Leu Lys Asp Gly Pro Tyr Gln Pro Lys Pro Ser Gln Ser Ala
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Glu Trp Asn Arg Gly Ala Tyr Leu Val Gln Gly Leu Ala His Cys Ser
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Thr Cys His Thr Pro Arg Gly Ile Ala Met Gln Glu Lys Ser Leu Asp
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Glu Thr Gly Gly Ser Phe Leu Ala Gly Ser Val Leu Ala Gly Trp Asp
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Gly Tyr Asn Ile Thr Ser Asp Pro Asn Ala Gly Ile Gly Ser Trp Thr
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Gln Gln Gln Leu Val Gln Tyr Leu Arg Thr Gly Ser Val Pro Gly Val
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Ala Gln Ala Ala Gly Pro Met Ala Glu Ala Val Glu His Ser Phe Ser
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                                                   270
Lys Met Thr Glu Ala Asp Ile Gly Ala Ile Ala Thr Tyr Val Arg Thr
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                                               285
Val Pro Ala Val Ala Asp Ser Asn Ala Lys Gln Pro Arg Ser Ser Trp
                       295
Gly Lys Pro Ala Glu Asp Gly Leu Lys Leu Arg Gly Val Ala Leu Ala
                                       315
                   310
Ser Ser Gly Ile Asp Pro Ala Arg Leu Tyr Leu Gly Asn Cys Ala Thr
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               325
Cys His Gln Met Gln Gly Lys Gly Thr Pro Asp Gly Tyr Tyr Pro Ser
           340
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Leu Phe His Asn Ser Thr Val Gly Ala Ser Asn Pro Ser Asn Leu Val
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Gln Val Ile Leu Asn Gly Val Gln Arg Lys Ile Gly Ser Glu Asp Ile
                       375
                                           380
Gly Met Pro Ala Phe Arg Tyr Asp Leu Asn Asp Ala Gln Ile Ala Ala
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Leu Thr Asn Tyr Val Thr Ala Gln Phe Gly Asn Pro Ala Ala Lys Val
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<213> Artificial Sequence





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